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P A T E N T

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named  
Inventor : Keith S. Champlin

→ Appln. No : 10/073,378

Filed : February 8, 2002

For : METHOD AND APPARATUS USING A  
CIRCUIT MODEL TO EVALUATE  
CELL/BATTERY PARAMETERS

Patent No.: 6,737,831<sup>02</sup>

Issued : May 18, 2004

Docket No.: C382.12-0111

Group Art Unit: 2838

Examiner: Lawrence Luk

Batch No: 6039

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Certificate**

**AUG 19 2004**

Sir:

**of Correction**

**Certificate**  
**AUG 19 2004**  
**of Correction**

I HEREBY CERTIFY THAT THIS PAPER IS BEING  
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**PATENT ATTORNEY**

In conformity with 37 C.F.R. § 1.322, applicant hereby requests a Certificate of Correction in connection with the above-identified patent.

Form PTO-1050 entitled CERTIFICATE OF CORRECTION setting out the printer's errors has been completed and is enclosed. It is respectfully requested that the enclosed Certificate be approved and signed by an Attesting Officer, and that a copy be returned to applicant's attorney for attachment to the original Certificate of Letters Patent.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123. A duplicate of this communication is enclosed.

**AUG 23 2004**

Respectfully submitted,

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(Also Form PTO-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,737,831 *B2*

DATED : May 18, 2004

INVENTOR(S) : Keith S. Champlin

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 7, line 45 (equation (4)), delete equation and insert:

$$G3 = 4 \cdot G3_{\max} \cdot (N_{\text{Pb}}^- / N^-) \cdot (N_{\text{PbSO}_4}^- / N^-)$$

Col. 7, line 46, delete " $N^- = N_{\text{Pb}}^- + N_{\text{PbSO}_4}^{4-}$ " and insert-- " $N^- = N_{\text{Pb}}^- + N_{\text{PbSO}_4}^-$  --.

Col. 7, line 48, delete " $N_{\text{PbSO}_4}^{4-}$ " and insert-- " $N_{\text{PbSO}_4}^-$  --.

Col. 7, line 50, delete " $N_{\text{Pb}}^- = N_{\text{PbSO}_4}^{4-} = N^- / 2$ " and insert-- " $N_{\text{Pb}}^- = N_{\text{PbSO}_4}^- = N^- / 2$  --.

Col. 7, line 55 (equation (5)), delete equation and insert:

$$\text{SOC} \equiv (N_{\text{Pb}}^- / N^-) = 1 - (N_{\text{PbSO}_4}^- / N^-)$$

Col. 8, line 56 (equation (12)), delete " $i_{0_{\max}}$ " and insert -- " $i_{0_{\max}}$  --.

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PATENT NO. 6,737,831 *B2*

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AUG 23 2004